

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Attorney Docket No.: ISPH-0617  
Inventors: Bennett et al.  
Serial No.: Not Yet Assigned  
Filing Date: Herewith  
Examiner: Not Yet Assigned  
Group Art Unit: Not Yet Assigned  
Title: Antisense Modulation of SHH Expression

#5/I.D.S.

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Date of Deposit November 16, 2001

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Washington, D.C. 20231.

By Jane Massey Licata  
Typed Name: Jane Massey Licata, Reg. No. 32,257

Assistant Commissioner for Patents  
Washington, DC 20231

Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 C.F.R. §1.56 and in accordance with 37 C.F.R. §§1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 C.F.R. §1.56(b).

(XX) In accordance with §1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified

application, within three months of the date of entry into the national stage of the above identified application as set forth in §1.491, or before the mailing date of a first Office Action on the merits of the above-identified application, no additional fee is required.

- ( ) In accordance with §1.97(c), this Information Disclosure Statement is being filed after the period set forth in §1.97(b) above but before the mailing date of either a Final Action under §1.113 or a Notice of Allowance under §1.311, therefore:

- ( ) Certification in Accordance with §1.97(e) is set forth below; or

- ( ) The fee of \$180.00 as set forth in §1.17(p) is attached.

- ( ) In accordance with §1.97(d), this Information Disclosure Statement is being filed after the mailing date of either a Final Action under §1.113 or a Notice of Allowance under §1.311 but before the payment of the Issue Fee, therefore included are: Certification in Accordance with §1.97(e); Petition Requesting Consideration of the Information Disclosure Statement; and the fee of \$130.00 as set forth in §1.17(i)(1).

(**xx**) Copies of each of the references listed on the attached Form PTO-1449 (modified) are enclosed herewith.

- ( ) In accordance with §1.98(d), copies of some or all of the references listed on the attached Form PTO-1449 (modified)

are not enclosed herewith because they were previously submitted to the U.S. Patent and Trademark Office in prior application Serial No. \_\_\_\_\_, filed \_\_\_\_\_, for which a claim for priority under 35 U.S.C. §120 has been made in the instant application.

Please charge any deficiency or credit any overpayment to Deposit Account No. 50-1619. This form is submitted in duplicate.

( ) The relevance of the listed references in a foreign language is as stated in the specification at pages @@.

(XX) All listed references are in the English language.

Respectfully submitted,

*Jane Massey Licata*

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Date: November 16, 2001

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#5

Sheet 01 of 03

<b>Form PTO-1449 Modified</b>  List of Patents and Publications Cited by Applicant (Use several sheets if necessary)  U.S. Department of Commerce		Docket No. <b>ISPH-0617</b>	Serial No. <b>Not Yet Assigned</b>
		Applicant <b>Bennett et al.</b>	
		Filing Date <b>Herewith</b>	Group <b>Not Yet Assigned</b>
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>			
	AA	Grosjean et al., "UV-specific mutations of the human patched gene in basal cell carcinomas from normal individuals and xeroderma pigmentosum patients", <i>Mutation Research</i> <b>2000</b> 193-199	
	AB	Fan et al., "Sonic Hedgehog Opposes Epithelial Cell Cycle Arrest", <i>J. Cell Biol.</i> <b>1999</b> 147:71-76	
	AC	Fujita et al., "Involvement of Sonic hedgehog in the Cell growth of LK-2 Cells, Human Lung Squamous Carcinoma Cells", <i>Biochemical and Biophysical Research Communication</i> <b>1997</b> 238:658-664	
	AD	Helms et al., "Sonic hedgehog Participates in Craniofacial Morphogenesis and Is Down-regulated by Teratogenic Doses of Retinoid Acid", <i>Developmental Biology</i> <b>1997</b> 187:25-35	
	AE	Incardona et al., "The teratogenic Veratrum alkaloid cyclopamine inhibits Sonic hedgehog signal transduction", <i>Development</i> <b>1998</b> 125:3553-3562	
	AF	Marigo et al., "Cloning, Expression, and Chromosomal Location of SHH and IHH: Two Human Homologues of the Drosophila Segment Polarity Gene Hedgehog", <i>Genomics</i> <b>1995</b> 28:44-51	
	AG	Ming et al., "Human developmental disorders and the Sonic hedgehog pathway", <i>Molecular Medicine Today</i> <b>1998</b> 343-349	
	AH	Oro et al., "Basal Cell Carcinomas in Mice Overexpressing Sonic Hedgehog", <i>Science</i> <b>1997</b> 276:817-821	
	AI	Roux et al., "Role of cholesterol in embryonic development <sup>1-4</sup> ", <i>Am J Clin Nutr</i> <b>2000</b> 71:1270S-1279S	
<b>EXAMINER</b>		<b>DATE CONSIDERED</b>	

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<b>Form PTO-1449 Modified</b>  List of Patents and Publications Cited by Applicant (Use several sheets if necessary)  U.S. Department of Commerce	Docket No. <b>ISPH-0517</b>	Serial No. <b>Not Yet Assigned</b>
	Applicant <b>Bennett et al.</b>	
	Filing Date <b>Herewith</b>	Group <b>Not Yet Assigned</b>

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

	AJ	Villavicencio et al., "The Sonic Hedgehog-Patched-Gli Pathway in Human Development and Disease", <i>Am.J. Hum. Genet.</i> <b>2000</b> 67:1047-1054	✓

**EXAMINER****DATE CONSIDERED**

